

ABSTRACT OF THE DISCLOSUREINTEGRATED OPTICS COUPLING ELEMENT COMPRISING A GRATING
CREATED IN A CLADDING AND ITS FABRICATION METHOD

The invention relates to an integrated optics coupling element characterised in that it comprises in a substrate (11) an optical guide core (12), an optical cladding (13) independent of the core and surrounding at least one portion of the core in a zone of the substrate called the zone of interaction, in which the cladding has at least in the zone of interaction a modulation of its structure so as to form a grating (R), in which the refractive index of the cladding is different from the refractive index of the substrate and lower than the refractive index of the core at least in the part of the cladding next to the core in the zone of interaction.

The invention has applications in particular for the fabrication of gain flatteners for optical amplifiers or even for the fabrication of linear response filters whose wave length is on a spectral band.

Fig. 2